

## **Launch Mission Execution Forecast**

**Mission**: Atlas V CST-100 OFT-2 **Issued**: 1 Aug 2021 / 0900L (1300Z)

**Valid**: 3 Aug 2021 / 1310 – 1330L (1710 – 1730Z)



**Forecast Discussion:** A 24-hour delay forecast has been added with this update. Southwest steering flow is expected through late week, which typically favors the eastern half of the peninsula for afternoon showers and thunderstorms. While storms will remain isolated and delayed again today, precipitation chances are expected to increase Monday as a mid- and upper-level trough develops over the southeastern U.S. and drives a front as far south as Georgia. Given the pattern on Tuesday and Wednesday, the greatest coverage of convection is expected to hold off until after the launch window; however, a weather-related violation is still possible due to activity pushing onshore from the eastern Gulf of Mexico each morning. The primary concerns at this time, particularly toward the end of each count, are the Cumulus Cloud and Lightning Rules. Cloud cover streaming over the state from storms over the eastern Gulf of Mexico will bring an added concern for a Thick Cloud Layer Rule violation.

	Probability of Violating Weather Constraints								
Day	40% Primary Concerns: Cumulus Cloud Rule, Lightning Rule, Thick Cloud Layer Rule								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	Isolated Storms / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)		
Ĭ	Temp/Humidity:		87°F / 72%	Cumulus	Scattered	3,000	10,000	Solar Activity:	Low
	Ground Winds (230'):		190° 15 - 19 knots	Cirrus	Broken	22,000	28,000		
,	Probability of Violating Weather Constraints								
Delay	40% Primary Concerns: Cumulus Cloud Rule, Lightning Rule, Thick Cloud Layer Rule								
	Weather Conditions							Additional Risk Criteria	
24-Hour	Weather/Visibility:		Isolated Storms / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)		
24	Temp/Humidity:		85°F / 76%	Cumulus	Scattered	3,000	10,000	Solar Activity:	Low
	Ground Winds (230'):		190° 14 - 18 knots	Cirrus	Broken	18,000	22,000		
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and									

**Note**: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.

Next Forecast Will Be Issued | 2 Aug 2021